## ARACHNIDA FROM NORTHERN QUFENSLAND．

## Part I．

By W．J．Rainbu川，Entomologist
（Plates 14，15，16．）
The material enumerated heremoder was collected by Mr． A．A．Giranlt in Nopthern Queenstand．By far the greater bulk of the species was collected in the vicinity of Gordon－
cormerly known as Neloon．The spiders are mostly small，and of the arboreal ype．This is what one wonld naturally expect when the methods of collecting adopted by Mr．Giranlt are considered，namely，＂beating＂and ＂sweeping．＂There are，however，as will be seen by a pernsal of the contents of this paper，a few terrestrial forms．

In such a mass of material as that collected by Mr．Girault， and from a district so rich in imlividuals and species，it is only matnral that some novelties should occur，and so we find it．These，which include new genera and new species，are in addition to ulready recorded forms enmmerated below．The ＂Giranlt Collection，＂as this material may be called，include one Lsometroides，one＇helifer，one lrompetrus，one Trombidinm and one Rhincolophus，all of which are recorded in their proper place．

Order s＇ORPION゙ID di．
Pumil！ANDROC＇ION゚OID\＆．
Liem：I sometroides，K゙ャys．
Isometrondes yescus，hush．
Isometris cearls，Karsch．，Sehrift．（ies，naturf．Fremud．Berlin， 1880，p． 56.

Isometroides cestur，Kers．，Die Arach．Anstr．，Suppl．，188t，p． 17，pl．2，tig＇s．3，3＂．

Hub．－Gordonvale（Nelson，viâ Cairns），under bark of ＂Bastard＂or＂Poplin Gum，＂Angust 28， 1912.

Order（＇ll ELONE＇TIID E．
Fぃ！
ripmis：Chelifer，liporfir
Chelifer mbeymintatus，Key．：
Chplifer breviligitulus，Keys．，Die Arach．Austr．，Suppl．，1884， $\mathrm{p}, 48, \mathrm{pl} .4$ ．figrs． 6 to $6 \cdot$ ．

Muh．－Hughenden，oluly 13，1912，on＂Sword guass．＂

F＇ルmil！！DAMPETRIDA．
（remls Dampetrms，К゙ursch．
Dampetrus tuberculatus，S＇m．
Domputins／uberculutns，Sor．，Die Arach．Austr．，Suppl．，1886， 1． 82.
Hub．－Gordonvale；lonest，muder logs，May 20， 1912.
Orler AhANEID E．
Fumil！AVICULARID $\nrightarrow$.
sul－iumil！Dipeurina．
temls Chenistonia，Hogy．
Chenistonia grauliti，Ruimb．
（＇henistonin yirumlti，Rainb．，Rec．Austr．Mus．，x．，No．8， 1914 ， pp．243－7，figs．52－57．
Hab．－Gurdonvale ；forest，under logs，May 20， 1912.
Fumil！ULOBORTD ※．．
s＇ub－fumil！Uloborine．
Genlus：Ulobor＇us，Lutr．
Uloborus geniculatus，Miv．
Uloborns yenicalutus，Olix．．Encyl．Méthod．cet．ii．，I789，p． 214.

Uloborlls zosis, Watck., Hist. Nat. Ins., Apt., ii., 1837, p. 231, Atlas, pl. 20, figs. 2A-DD; L. Koch, Die Arach. Austr., i., 1871, p. 221, pl. xix., figs. 3-3e; Thor', Studi Rag. Mal. e Pap., ii., 1878, pp. 129 and 290 ; Op. cit., iii., 1881, p. 158 ; Op. cit., Parte iv., 1890, p. 239.
Hub.-Cairns, November 10, 1912, in stables; May 1, 1913, in rooms of an moccupied dwelling; August 7, 1913, in laboratory. A very common species. It occurs also in India, Burma, Malaysia, Papua and Sonth Sea Islands.

> Uhimorus variablide, Ǩeys.

ITloborus curiubilis, Keys., Die Arach. Austr., Suppl., 1887, p. 231, pl. xx., figs. 9-9e.

Hub.-Specimen with fonr egg-sacs on bank of streamlet; forest, Gordonvale, April 27, 1913; immature specimens, jungle, Gordonvale, May 25, 1913 ; same locality, March 30, and April 2, 1914; Pentland, September, 1914. The cocoons are similar to those of $U$. republicanus, Sim. ${ }^{1}$

Uloborus barbipes, L. Fiuch.
Cloborts burbipes, L. Koch, Die Alach. Austr., i., 1871, p. 229, pl. xix., figs. 9 and $9 u$.

Hub.-Gordonvale, May 1, 1912; Pentland, September 9, 1914.

## S'ub-fumily Magramsopine.

Genus Miagrammopes, U. I'. C'umbr.
Migqammopes bradieyt, (1. P. C'embi.
Miayrommones brulleyi, O. P. C'ambr', Am, Mag. Nat. Hist., xir. (4), 1874 , p. 177.
Hab.-Two specimens, each fiom Gordonvale, taken by sweeping; one on May 25, 1913, and the other on March $\stackrel{2}{ }$, 1914. In my "Census of Anstralian Araneidæ" the lubitut is given as "Sydney, N.S. Wales"; it shonld read, "N. Australia.' ${ }^{\prime}$ -

[^0]
## (Plate xir., fig. 1.)

of Cephalothorax, 1.8 mm . $\mathrm{long}, 1 \mathrm{~mm}$. broad; abdomen, 3.5 mm . long, 1.3 mm . broad.

Cephalothoruc.-Oblong, olive-green, almost parallel-sided. Purs cephulica rather flat, obtusely trancated in front, sides slightly rounded. Purs thorucica long, narrow, flat and somewhat nneren above, level with purs cephuticu, sides somewhat rounded, posterior angle obtusely trincated. Marginal buml yellowish, broad, rounded. Eyes.-Eight. Those constituting the rear row form a slightly recurved line; each lateral eye of this row is separated from its neighbour by a space equal to twice its individual diameter; the median eyes are, again, separated from each other by a space equal to fully four times its indiridual diameter ; anterior eyes exceedingly minute, and difficult to detect; they are arranged in pairs; each pair is situated immediately in front of the posterior median eyes, are placed obliquely, and nearly touch each other'; each lateral eye of the posterior row is removed from its minnte anterior neighbours by a space equal to fully once its own indiridual diameter (Fig. 1.) Legs.-Unequal in length; first pair much the longest and strongest. Relative lengths: $1,4,2,3$. First pair olive-green above, sides and underneath dull yellowish; the other pairs pale yellow. Calamistrum prominent. Palpi.-Yellow, short, hairy. Fulces.-Concolorous, short, weak, porrected. Muxillce.-Dull yellow, rather long, moderately strong, almost parallel, inclining inwards; apices obliquely romded. Labium.-Concolorous, somewhat coniform. S'termum.-Concolorons also, elongate, narrow, arched, and furnished with a few rather long hairs. Abdomer.Cylindrical, not orerhanging base of cephalothorax; upper surface dark olive-green, relieved by six large, fellow spots, arranged in pairs; sides concolorous, relieved by large yellow patches; inferior surface pale yellow, reticulated with a tracery of fiue dark olice-green. Spimnerets.-Normal.

Hab.-Gordonrale jungle, "sweeping"; one specimen in Jnne, 1913 (type) and one, immature and broken, June, 1914.

# Family DICTYNID.E. <br> liente Amaurobius, $C^{\prime}$. Kock. <br> Amacrobitis chalybeius, L. Koch. 

Amuurobius chulybeius, L. Koch, Die Arach. Austr., i., 1872, p. 328 , pl. xxri., figs. $4-4 b$.

Hab.-Gordonvale forest, "sweeping," April 27. 1913.
Ranges from North Queensland to W. Australia.
Amaurobics sexilis, L. Koch.
Amuurobius sentile, L. Koch, Die Arach. Austr., i.. 1872, pl. sxri., figs. 3, 3u.

Hab.-Hughenden, among "Sword grass," July 13, 1912.
Amalrobits scalaris, L. Koch.
Amumrobius seculuris, L. Koch, Die Arach. Austr., i., 1872, p. 334, pl. xxil., tigs. 7, 7u; Loc. cit., p. 337.

Hub.-Gordonvale, jungle, May 29, 1914.
Genns Aphy̧etuschæma, Simon.

> Aphtctoschema macelata, sp, nor.
(Plate xiv., figs. 2,3 , and 4.)
ㅇ Cephalothorax 1.5 mm . long, 1 mm . bruad; abdumen, 2.4 mm . long, 1.5 mm . broad (Fig. 르) .
('ephulothorar-Ovate, shining, mahogany brown. Purs replutica raised, arched, smooth; oculur ureu broader than long; clypeus deep, furnished with two or three short bristlen. Pars thoracica smooth, arched, shining, normal groores distinct; median foren longitndinal: marymal band broad. Eyes.-Nearly equal in size, in two rows of forr each, large ; anterior row straight on its front line; rear row strongl? procurved; front median eves separated from each other br a space equal to once their indiridual diameter; rear median eyes separated from each other by a space equal to twice their individual diameter; lateral eyes oblique, nearly touching: each pair linked together upon a black tuberculum: rear median eyes separated from their anterior median neighbours
by a space equal to once their individual diameter (Fig. 3). Legs.-Not loug, moderately strong, rellow, amulated with brown rings; all ambulatory limbs armed with long, fairly strong spines: the latter are longest and strongest upon the metatarsi-at any rate insofar as the second, third and fourth pairs are concerned: unfortmately each anterior leg has lost all joints below the putellu. Pulpi.-Long, yellow, not anmulated; bairy, and similarly armed to legs. Fulces.-Slightly projecting, concolorous with cephalothoras, clothed with loug, coarse hairs or bristles, apices divergent: imner angle of the furrow of each falx armed with two small teeth, of which the one nearest the fang is the smaller. Iurillce.-Yellow-brown, imer angles pale yellow, moderately long, arched, apices inclined inwards and obtnse; a few long, bristly hairs distributed over the surface. Labium.-Concolorous, rather longer than broad, parallel-sided, apex truncated, but slightly depressed at centre. Stermm. Concolorous with cephalothorax, broad. smooth, shining, slightly arched, anterior angle trincated, apex acummate, and terminated between posterior coxæ. Abdomen.-Large, ovate, slightlr overhanging base of cephalothorax, strongly arched, pubescent, superior surface and sides cinerons, relieved by a series of slightly darker patches and markings (Fig. 2) : inferior surface concolorons, with three slightly darker median, longitudinal stripes, extending from epin!ustric find to near cribellm, which latter is bipurtite. Epigymum-Large, saised, arched, shining brown with an undulating lip overlanging a deep cavity (Fig. 4).

Hub.-Gordonsale, forest, May 9. 1913.


lieuns Soytodes. lutr.

(Plate xiv.. figs. 5, 6 and 7).
¢ Cephalothorax, 4.2 mm . long, 3.5 mm . broad; abdomen, 5.7 mm . long, 3.5 mm . broad.

Cephuththord,-Yellow, with dark pencillings, subglobose, narrowest in front. l'us cephulicu strongly arched, smooth, sloping forward precipitately to near resrion of anterior eyes, from whence it gradnally ascends towards clypens, which latter
is truncated，steep and indented in front；nolur ureu broader than long．P＇urs thomeicu high，strongly arched，sloping abruptly at rear；marginal bund hroad，sellow．mottled with dark brown（Fig．5）．Eyes．－Six，arranged in pairs；each lateral pair prominent，raised upon a tubercle and widely removed from thie other：the eyes of each pair closely in contact with each other．Leys．－Lung，slender，pale rellow， sputted with dark brown and sparingly clothed with short hairs：patelle broadle ringed with dark brown：each tibia has also a ring of dark brown near to junction of metatarsus． Ponpi－Short，yellow，hairy．Fulers－Weak，short，slightly projecting，pale yellow with dark brown pencilling ；fang vers short，weak．Marillie．－Short，yellow，outer angles dark brown；broal at base，tapering rapidly towards apices which are bluntly accuminate，and incline inwards；inner angles straight．Labium．－Dark brown，coniform．Sternum．－ Shield－shaped，truncated in front，and accuminate at posterior extremity，which latter terminates between fourth pair of coxæ；surface dark brown with a broad rellow patch in front，and another of a somewhat leaf－like design at the centre ： these patches are comected by a narrow yellow line which suggests the stalk of the leaf；there are also six moderately large and prominent sigillu，and these are marginal．Abdo－ men．－Orate，strongly arched，slightly abutting on to base of cephalothorax，dall yellow，with dark brown pencillings uporn superior surface and sides；under side dull yellow also with a few scattered，dark spots（Fig．6）．Epigynum．－Large，dark brown，and forming two elongate plaques，each of which are surrounded with long，fine hairs（Fig．i）．

Hab．－Gondi．taken from window of residence，July $\supseteq$－ 1912．Eggs in small ball carried by fangs

Family DS心DERII．E．
ぶいい－family SEGESTRIN゙※。
Genus Ariarna，Aur．in Sur．
Ariadna？octospisata，Lembl．
 169，fig． 1.

Hub．－Pentland．An immature specimen of what I take to be the above species，was collected by Mr．Giranlt，in September， 1914.


## S゙uル－ゲィmil！DRASSODINAE

For the reception of the species described hereunder，I venture to propose a new gemms，fiphicmitns，and this shonld， 1 think，be included in Simon＇s group Echemper．It agrees with the group indicated in a number of important details． This group includes several genera that are represented in Australia，but to none of these does it wholly couform．How－ ever，the student by comparing the description of Epicharitus herein given，with those of genera ennmerated and defined by Simon in his great classic，＂Histoire Naturelle des Araignées，＂ will easily detect in what manner the genus now defined for the first time differs from those already established，and the reasons for incorporating it in the section mamed．

> Cemus Epicharitus,* !r". !"ur.
> (Plate xiv., fiy. 8.)

C＇equctothre．Oblong－ovate，inarrow，arched．Purs cephenticu not higher than thoracic segment，obtuse in front；occular wre，broader than long；m！peus narrow，deep．Pars thoracicu arched；median foren absent．E！es．－Eight，large，nrranged in two rows of four each；front row slightly procurved，the eyes grouped closely together；rear row strongly procurved， the individuals widely separated（Fig．S）．Legr．－Moderately fong，robnst，hairy，spined；metatarsi and tarsi of anterior pair，and tarsi of fourth pair，scopulated：tarsi armed with two claws，and finished with tenent hairs．Relative lengths： 4，1，2，3．Polpi－Moderately long，similar in clothing and armature to legs．Pultess－whort，weak；inferior margin of furrow armed with three small teeth，and snperior with two； fieng，short，weak．Musillu－Leng，broad，strongly arched， obtuse，apices inclining inwards；in general appearance some－ what like Sergiulus，Sim．，but stonter．Luthimm．－Dang，narow， almost straight，apex obtuse ；also somewhat like Sergiolus， being relatively as long，but broader．Sternm．Elongate，

[^1]arched, obtnsely attenuated in front and at rear. Abdomen. Elongate, cylindrical. S'pinnerets-Elongate, cylindrincal, apices truncated, and encircled with well-developed spimmernles.

Epicharitus legcosemus, ap. mor.
(Plate xiv., tigs. 9 and 10).
$Q$ Cephatothomax, 2.3 mm, long, 1.3 mm. hroad; abdomen. 2.6 mm . long, 1.3 mm . broad.

Cephuthorur-Oblong-ovate, smooth, dark-brown (ahmost black), shining, and when viewed with strong light, displaying coppery reflections; there is a mumber of short, stiff hairn scattered over the surface ; junction of cephalic and thoracic regions not indicated. J'urs cephuticu not higher than thoracic segment, strongly arched, gently sloping forward, obtuse in front; occular areu broader than long; clypeus narrow, deep, and fringed with long black bristles. Pers thorucice strongly arched, sloping gently to posterior angle which is slightly indented; marginal band narrow. Lyes.-Arranged in two rows of four each; anterior row slightly procurved, and posterior row strongly so. The eyes constituting the anterior row, are gronped together compactly ; the median pair are romid, and separated from each other by a space equal to half the individnal diameter of a median eye; lateral eyes elliptical, placed obliquely, and each close to its median neighbour; rear eyes sensibly smaller than the medianfront eyes; of this series the onter eyes are slightly smaller than their inner neighbours, from which each lateral eye is removed by a space equal to once its own individual dimeter; imer eyes separated foom each other by a space equal to fous times their own individnal dianeter; each anterior median ere separated from the posterior median in an oblique line by a space equal to twice its individnal diameter (Fig. 8). Legy:-Moderately long, robust, concolorons with cephalothomx, clothed with long hairs, and bespined. Pulpi.-Modenately long, similar ins colom and armature to legs. Fulces.-Short, very weak; inferior margin of furrow armed with three small teeth, and the superior with two; fong short, very weak. liarillu.-Long, stout, concolorons with cephalothorax, arched, sparingly hairy, apices

[^2]obtuse, inclining inwards, and with the iuner angles fringed and oblique. Lubium.-Concolorons also, arched, much longer than bruad, coniform, surface sparingly hairy, apex fringed with rather long bristles. sternum. - Concolorous with cephalothorax, and displaying similar metallic reflections, elongate, arched, smooth, anterior and posterior extremities obtuse. Abclomen.-Cylindrical, arched, densely cluthed with long black and white hair (Fig. 9). At anterior extremity the abdomen is grey, then black; near the centre there is a broad white band which almost completely encircles the animal at that part; the white band is succeeded by a broad patch of black, and this again by a terminal band of white. Epigynum.-A transversely oval plaque faintly indicated with two circular, dark-brown, shining depressions (Fig. 10).

Hut,-Gordonvale, sweeping in jungle, May 11, 1913.
(iroup SYMPHANODEA.
The graceful spider described hereunder presents some features that will be of much interest to stadents, and these seem to suggest that a new group in the sub-family Drassodine is essential for its reception and so I propose the name symphanodere. Simon has divided this sub-family into nine well-defined groups, into none of which the form now demanding attention appears to fall. By its spinnerets it somewhat resembles Megumyrceon, Reuss., in respect to their truncature, and the well-dereloped spimnernles; but there the immediate affinity with that genus ends. One of the most striking feathres of this spider, for which I propose the mame stmmphondes diemithus: (yen. et sp. nor.), is the leg formula, which is $4,3,1$, 2, whilst in other genera, it is $4,1,2,3$. Another exception is that all the metatarsi and tarsi are scopmated, instead of only those of legs i. and iv. as in several genera, or of only that of the first pair in others; and to this most be added the eye formmla and the form of maxille and labium.

Gipuns Symphanodes, ${ }^{5}$ !en. nor.
(Plate xiv., ligs. 11, 12, and 13.)
Cephuthothrar-Oblong-ovate, obtuse in front. I'ars rephulicu moderately raised, arched, sloping to the rear, normal

[^3]grooves defining junction of cephalic and thoracic segments distinct; ocular area broader than long; clynens marrow. Purs thoracica arched, normal grooves faintly indicated; mediun fovea absent. Eyes.-Wight; in two rows of four each; rows slightly procurved (Fig. 11). Leys.-Short, robust, bespined; metatarsi and tarsi scopulated. Clurs, 2. Relative lengths: 4, 3, 1, 2. Palpi.-Short, moderately robnst, similar in clothing and armature to legs. Fulces-Moderately long, not strong; superior margin has three minute teeth, and the inferior margin tivo, but they are very difficult to detect; finm rather long, well chred and exceedingly fine. Murillo.Long, narrow, arched; each rounded at base and obtusely pointed at apex; apices inclining inwards (Fig. 12). Lubium.Coniform, very long, arched (Fig. 12). Sternm.-Elongate, oval, anterior extremity ronnded, posterior ext emity obtusely accuminate. Ablomen.-Oblong. Spimnerets.-long, cylindrical ; apices truncated, and surrounded with well-developed spinnerules (Fig. 13).

## Symphones Dianiphes, ${ }^{6}$ sp. uov.

(Plate xiv., figs. 14, and 15).
\& Cephalothorax, 1.6 mm. long, 12 mon. broal] ; abdomen. 2.5 mm . long, 1.2 mm . broad (Fig. 14 ).

U'ephulothorth. - Oblong - wrate, arched, smooth, shining, yellow, with dusty patches on cephalic segment and at posterior angle. Pars ceftulicu arched, ubtnsely attenmated in froml. sloping gently rearwards to junction of thoracic segment: ornler weal broader than long ; rl!pru: narmow, fringed with a few long coarse black hains. Phm thmotion arched, radial grooses not deep, but ristinct, a few shom black bristles distributed orer surface: murimul buml, narmow. E'yes.Large, distributed over two rows, each of which is slightly procurved; the front median eyes are separated from each other by a space equal to rather more than once their indiridual diameter; front lateral eyes are near to, but do not touch their median neighbours; lateral eyes of rear row separated from their inner neighbours by a space equal to once their individnal diameter: rear median eyes twice their

[^4]individual diameter apart (Fig. 11). Legs.-Short, robust; legs i. and ii. considerably the shortest and the most robnst; of these two pairs the femora are very short and very stout; the tibia of each of these legs is short and stont, but very slightly longer than the patella; metatarsi and tarsi short and stont, and together equal in length to tibia; legs iii. and ir. are strong, though not so stout as the anterior pairs. In each leg the femur is dusky and the succeeding joints yellow. All are hairy and bespined. Palpi.-Moderately long, strong, similar in colour, clothing and armature to legs. F'ulces.Moderately long, not very strong, hairy, dusky yellow. Marilloe-Dusky, moderately hairy, convex, loug, apices melining inwards (Fig. 12). Lutbium.-Concolorons and similarly clothed, coniform, apex fringed (Fig. 12). Stermum.Elongate, yellow, smooth, shining, broadest between cozæ ii. and iii., trincated in front, posterion extremity obtusely accuminate, surface flattened and furnished with short, stiff, scattered hairs, edges rounded. Abdomen.-Oblong, obovate, not overhanging base of cephalothorax, arched, clothed with long, coarse hairs, dark-brown. With two large white lateral patches at anterior extremity, two at the middle, and a small transverse white patch at posterior extremity. On the underside, the abdomen is of a dull whitish colon in front of the rima epigasteris, otherwise dark-brown with a large, median oblong grey patch extending from the rima epiyusteris to just. beyond the centre; from thence dark-brown mitil just in front of spimerets where there is an intermpted transserse bar of light grey. Epigynum.-Large, longer than broad, with two large circular pits at posterior extemity (Fig. 15). Spimer-ets.-Long, eylindrical and whitish, elothed with long coarse hairs, apices timucated and encircled with spimernles.

Iub.- Cape River, Jannary 7, 1913, sweeping grass.
F'mmily Zollalilly Li.

# Sul-jumil! ZOI)ARITNA. 

> Cienns Storena, Walchi.

SHEENA? AbBOMACULATA, Rainb.
Storenu! ulbomucntutu, Rainb., Proc. Limn. Sue. N.s. Wales, xxvii., 1902, p. 485 , pl. xviii., figs. l, lu.

Hut.-Bowen, forest, November 1, 1912. I think there can be little doubt but that this specimen is the $\delta$ of my s . ullomurnlutu, as in colour, ornamentation, and eye formula it agrees with that species. The species was originally recorded from Burwood and afterwards Behnore, and I have since received another example from the Tweed River, New Soull Wales.

## Storena auripes, ap. une.

$$
\text { (Platexiv., figs. } 16,17, \text { and } 18 \text { ) }
$$

o Cephalothorax, 2.7 mm . long, 2. 1 mm . brad ; abdomen, 3.2 mm . long, 2. 1 mm . broad.

C'ephuththorke-Dark-brown, shining. L'urs cephuticu broad, strongly arched, obtuse in front, junction of cephalic and thoracic segments distinct, a few strong, black bristles distributed over the surface; ocular areu longer than broad, black; clypeus deep, narrow, fringed with long, black bristles. Puis thorucicu arched, radial grooves indistinct, surface furnished with scattered, stiff black hairs, and ornamented with a band of fine hoary hairs rmming down the middle, and patches of concolorous hairs at the side; murginal band narrow. Eyes.Eiglit; arranged in two procurved rows of four each; anterior row only slightly procurved, bat the rear row strongly so ; anterior median eyes as large as those constituting the posterior low, and separated from each other by a space equal to fully once their individual diameter; front lateral eyes smallest of the gronp, and each removed from its median neighbour by a space equal to half its own diameter; rear median eyes separated from each other by a space equal to once their indicidual diameter, and each from its lateral neighbour by a space equal to rather more than one diameter (Fig. 16). Leys.-Robust, long, hairy and armed with long, fine spines; anterior pairs dark-brown at base of femur, thence bright yellow ; rear pairs yellow also, but darker than their anterior neighbours. Relative lengths, 4, 1, 2, 3. Pulpi.—Short, hairy, armed with long, stont spines, yellow; femmr longer' than patella and tibia combined; genitel bulb longer than all other joints combined; complicated (Fig. 17). Fulces.Concolorons with cephalothorax, arched, slightly produced, clothed with long, coarse hairs or bristles. Muicllce.-Red-dish-brown, shining, inner angles pale yellow, apices obtusely
truncated, inner angles fringed with long pale yellowish hairs, surface furnished with a few short, black bristles. Lalium.-Reddish-brown also, apex yellow and rounded; arched; a few coarse black bristles spread over surface. Stermum.-Also redlish-brown, shield-shaped, strongly arched, failly well clothed with hoary hairs, amongst which are scattered a few black bristles. Abdomen-Ovate, arched, not overhanging base of cephalothorax, hairy. Upper surface dark-brownnearly black, ornamented dorsally and laterally with white markings and patches: inferior surface, dull-yellow (Fig. 18).

Hub.-Pentland, September, 1914.

Storera inornata, ap. min.
(Platexiv., figs. 19 and 20 ).
\& Cephalothorax, 2.5 mm . long, 1.5 mm . broad; abdomen, 2.8 mm . long, 1.5 mm . broad.

Ceplulothorut-Obovate, reddish-brown, shining. Pars cephulicu arched, moderately clothed with very short, fine hairs, obtuse in front, junction of cephalic and thoracic segments distinct; ocular area dark-brown, rather broader than long ; clypeus moderately broad, deep. Purs thoracicu strongly arehed, radial grooves not defined; mection jorell rather long, distinct ; marginal band narrow. Eyes.—Eight, equal in size, distributed over two rows of four each ; both rows procurved, the rear extremely so ; front median eyes separated from each other by a space equal to once their individual diameter, and each from its lateral neighbonr by about one-half its diameter; rear merlian eyes separated from each other by a space equal to abont one-and-a-half their individual diameter, and each from its lateral neighbonr by a space equal to that of one diameter (Fig. 19). Legs.-Long, moderately strong, tapering, clothed with short, fine hairs, and armed with long, fine spines; each femur of first, second, and third pairs dark-brown from base to near junction with patella, where it is pale yellow ; all other joints of legs referred to, pale yellow ; the fomrth pair has the femur pale yellow at base, then dark-brown, and pale yellow at apex; patella and tibia are each dark-brown with
yellow apices; metatarsus dark-brown at base and apex, with a broad, dnsky yellow band in between; tarsus yellow. Relative lengths: 4, 1, 2, 3. Pulpi.-Long, yellow, tapering, similar in colour and armature to legs. F'ulces.-Concolorons with cephalothorax, shightly projecting, strongly arched, hairy. Muxillce.-Strong, broad, arched, dark-brown, apices and inner angles yellow; surface furnished with a few black bristles, inner angles fringed with fine, pale lairs. Labium.-Long, broad, romded at apex, which latter is fringed with long, black hairs, arched, dark-brown, apex yellow. Sterum.-Shield-shaped, reddish-brown, arched, surface moderately clothed with fine, hoary hairs. Abllomen.-Ovate, not overhanging base of cephalothorax, arched; superior surface yellow-brown, spotted with pale yellow, moderately hairy; inferior surface reddish-brown in front of rimu epigusteris, and below that yellowish-grey. E'pigynum. - Large, arched, bilobed, and having two deep, circular lateral pits (Fig. 20).

Hub.-Gordonrale, August 30, 1912. A very distinct species, and remarkable from the fact that it is in no way ornamented.

## Gemus Heterica, ${ }^{\text {a }}$ yen. noc.

(Plate xiv., fig. 2I, and Plate xv., fig. 2昂).
For the reception of the next species herein described, I propose a new genus-Hetcerica. This spider conforms closely to those we have just been studying, the storenu, in the form of the cephalothorax, the two rows of eyes, the presence of only one tonth on the lower ridge of the falx, and in the possession of three tarsal claws, but differs therefrom principally in the number of spinnerets. In storena there are six, and of these the fore spinnerets are long, and the hind ones short; Hetcerica, on the other hand is only provided with four'; the front pair are very short-almost aborted, while the hind pair are long. Indeed, the fore pair have to be carefully songht for, as they are so diminntive, and so obscured by long abdominal hairs, that they are not easily seen. The species for which I propose the specific name aresco is an exceedingly beautiful one. The description of the genns is as follows :-

[^5]Cephatothorax.-Oborate, arched. Purs ceplulica obtuse in front, segmental grooves distinct; ocnlur wreu rather broader than long; clypels unt broad, deep. Purs thorucicu broad; radial grooves and me:lian fovea distinct. Eyen.-Eight, in two rows of fonr each; each row procurved (Fig. 21). Leys.Rather long, tapering, moderately strung, armed with long and moderately strong spines; superior claws long, and each furnished with a comb of long teeth. Relative lengths: 4, l, Q, 3. Pulpi.-Short, strong, spined, tarsal claw furnished with a comb of long teeth. Firlces.-Not projecting, strong, arched, lower margin of the furrow of each falx armed with one tooth. Marille.-Moderately long, apices obtuse and inclining iuwarls (Fig. 22). Luthim.--Longer than broad, somewhat coniform (Fig. 22). Sternm.-Broad, shield-shaped, truncated in front, ubtusely accuminate at rear: Ablomen.-Ovate. spimnerets.-Fom: The two in front minute; rear pair long crlindrical.

Heterica aresca, ${ }^{8}$ sp, nor.

> (Plate xv., tig. 23).
of Cephatuthorax, 2 mm . long, 1.4 mm . broad: abdomen, 2.5 mm . long, 1.4 mm broad.

Cephulothmicu-Obovate, yellow, smooth, shining, arched. Purs cephulicn obtase in frout, segmental grooves distinct; oculur ureu rather broader than long; clypeus not broad, deep. Purs thorncicu broad, radial grooves and median forea distinct; muryimul bund narrow, and of a rather darker tint than the surface. Eype.-Eight, distibuted orer two strongly procursed rows of fom each; front median eyes smallest of the series and separated from each other by a space equal to once their own individual diameter; front lateral eyes separated from each other by a space equal to nearly twice their individual diameter; rear median eyes near together, and each separated from its lateral neighbour by fully once its individual diameter (Fig. 21). Legs-Long, moderately strong, tapering ; coxa concolorous with cephalothorax ; other joints, with exception of tarsi, smoky yellow ; the legs moderately

[^6]hairy and armed with long, fairly strong spines; superior tarsal claws long, well curved, and each firmished with twelve long teeth. Relative lengths: 4, 1, 2, 3. Pulpi.—Short. strong, yellow, similar in clothing and armature to legs; tarsal claw long, and fumished with a number of long, fine teeth. Fulies.-Not projecting, strong, moderately long, arched, hairy, concolorons with cephalothorax. Mrillee. Concolorons with falces, morlerately long, arched, apices obtusely accuminate, slightly fringed and inclined inwards, surface furnished with a few long, strong, black bristles (Fig. 22). Lultium.Conger than broarl, concolorons, somewhat coniform, arched, surface furnished with a few short, stiff black bristles (Fig. $\underline{2}$ ). Sternm. - Concolorous also, shield-slaped, arched, truncated in front, acemminate at rear, surface furnished with rather long, strong bristles. Abdomen.-Ovate, arched, not overhanging base of cephalothorax; superior surface hairy, black, ornamented with reticulated silvery markings (Fig. 23); inferior surface dark-brown, hairy, relieved by three longitudinal, paralell whitish stripes, of which the central one is the strongest. Epi!!!mum.-Small, with two circular pits.

Hub.-Pentland, sweeping foliage in forest, Janary 9, 1913.

> (ienus Pholens, Itweli.
> Parocees litoralas, L. Ǩorth.

I'lulcus liturulis, L. Korh, Verh. Kス, zonl.-bot. (ies. Wien,
 tiges. 1, lu.-1!/.
Mnt,-Gordonrale, munerons in dwellings, May, 191:.
ripmis: Trichneyclus, simon.
Trichorevels xigropenctates, simon.
 i., $1905, \mathrm{f} .407$.

Mr, -Hnghenden, May L: 1912.

Tienus Psilochorns, Simon. Psilochorus spilaeromes, L. Koch.

Pholcus splueroides, L. Koch, Die Arach. Anstr., i., 1872, p. 283, pl. xxiii., fig. 6, 6u-6r.
Hab.-Hughenden, July 1t, 1913 ; Townsville, July 15, 1912; Cape River, Jannary 7, 1913; from interior of buildings.

## Fumily TILERIDIIINA.

Trem: Ariamnes, Thons.

## Amannes colubrinus, Kpys.

Ariammes rolulrimus, Kers, Die Arach. Austr., Suppl., 1890, p. $237, \mathrm{pl}$. xxi., figs. 5, 5u-5c.

Hub.-Alnomba, forest, sweeping grass, July 7, 1912 ; Gordonvale, forest, sweeping grass. Angust 10, 1912.

Ciemis Argyrodes, Nim.
Argyrones antipomana, O. P. r'umb.
Ary!rudes mitigntinnu, O. P. Camb., Proc. Zool. Soc., 1880, 1. 327.

Mrb.-Gordonvale, Augnst 28, 1912, August 31, 1912, May 14, 1913, March 5, 1914; Aloomba, Jıly 7, 1912: sweeping jungle growth and grass.

## Argyrones inctifrons, Keys.

Aromples incisifons, Kers., Die Arach. Anstr., Suplul., 1890, p. $246, \mathrm{pl}$ xxii., figs. 5, 5/1, 5b.

Hub,-(imido:svale, damary, 191t, jungle, sweeping.
Arimb川hes artientata, *p. mot.
(Plate xr., fig. 24.)
© Cephalothorax, 1 mm . long, 0.5 mm . broad; abdomen, 1.2 mm . long, 1.2 mm . broad, 2.6 mm . from ventral surface to apex.

Cephulothorre. - Smooth, orate, yellow - brown. Purs cephalica sloping rearward, normal grooves distinct; ocular wrect broader than long; rlypeus moderately deep, projecting, and slightly cleft beneath median eyes. Pars thoracica broad in front, retreating to posterior angle where it is very narrow, radial grooves distinct; murgimal bamt narrow. Eyes.Eight; nearly equal in size; the fon median eyes form a trapezium; the front median pair are the widest apart, and slightly the largest; lateral eyes contiguons. Legs.-Long, not strong, yellowish; anterior pair much the longest. Relative lengthis: $1,4,2,3$. Pulpi.—Short, concolorons, hairy. F'alces.-Concolorons with cephalothorax, hairy. Marille.Concolorous also, arched, long, and parallel. Lubium.-Also concolorons, uormal. stermum.-Elongate, triangular, brown, shining, arched, moderately hairy, accuminate posteriorly, and terminating between the fourth pair of coxæ. Abdomen.Gibbons, jellow-brown, with dark-brown longitudinal and transverse striations; apex obtuse, white at summit; sides ornamented with bright silvery bands and spots (Fig. 24).

Hub.-Gordonvale, sweeping forest at top of coastal range 1,500ft., May 29, 1913.

Argyrodes argentiopunctata, sp. nov.
(Plate xv., figs. 95, 26 , and 27.)
§ Cephalothorax, 1.1 mm . long; 0.8 mm . broad; abdomen, 1.4 mm . long, 1 mm . broad.

C'ephulothorue-Ovate, straw-yellow, smooth. Purs cephulicu arched, ascending, sides declivons: ocular urea broader than long; clypeus somewhat produced, bnt not cleft. Puis thoracica arched, normal grooves distinct; marginal bend narrow. Eyles.-Of equal size, distribntion normal. Leeff.Long, slender, tapering, apices of tibiæ of first and fourth pairs orange-yellow; each leg has a few fine hairs and a few moderately long, weak spines. Relative lengths: $1=4,2,3$. Palpi.-Long, straw-yellow; genital bulb large, somewhat complicated, furnished with a ferv short, strong spines, and clothed with long, fine hairs (Fig. 25). Fulces.-Strawyellow, arched, hairy. Maxillre.-Long, arched, straw-yellow,
parallel, apices inclining inwards. Labium.-Concolorous, normal. sternum.-Concolorous also, elongate, triangular. Abdomen.-Somewhat gibbous, very slightly overlianging base of cephalothorax, yellow, upper surface and sides ornamented with irregularly formed bright silvery pits (Fig. 26).

오 Cephalothorax, 1.4 mm . long, 1 mm . broad; abdomen, 2 mm . long, 1.5 mm . broad.

In every particular, except size and sexual characters, both sexes agree, hence a detailed description of the $?$ is unnecessary. Epiy!mum.-As in figure (Fig. 27).

Hub.-Gordonvale, wweeping jungle, on the following dates:Jannary, 1913, and 1914, March 5, 1914, May 25, 1913, May 29, 1913, June 3, 191: June 4, 1913.

Argyrones musgrater, 9 sp. not.
(Plate xr., fig. 28.)
q Cephalothorax, 1.3 mm . long, 0.8 mm . broad; abdomen, 1.7 mm . long, 1.2 mm . broad, and 1.7 mm . from apex to tips of spinnerets.

Cepheldhoruir. - Yellow, smooth, shiuing, ovate. I'urs replulicu arehed, high, retreating rearwards, sides declivons; wenlar area broater than long ; clypens produced, but not cleft. Purs thorucicu arched, normal grooves distinct; murginal bund narrow. Eyles.-Equal in size; distribution normal. Legs.Long, slender, tapering, dark-brown (nearly black), except coxæ and tarsi which are concolorous with cephalothorax, armed with a few short, fine spines, and clothed with exceedingly fine and short pubescence. Relative lengths: $1,2,4,3$. Pulpi.-Concolorous with cephalothorax, and similar in clothing and armature to legs. Frlces.-Coneolorous also, arehed, pubescent. Mratlue ant Luthim.-Also concolorous: normal. S'ternum.-Also concolorons, elongate, triangular, arched. Aldomen.-Cibbous, slightly orerhanging base of cephalothorax, arched, pale yellow, not shining, apex dark brown, each side nrummented with twn bright, silrer spots (Fig. 28), pubescent.

Hub.-Gordonvale, sweeping, September 5, 1912.

[^7]Argyrodes flayipes, sp. nom.
(Plate xv., figs. 29 and 30.)
उ Cephalothorax, 0.9 mm . long, 0.7 mm . broad; abdomen, 1.5 mm . long, 1.2 mm broad.

C'ephetothorux-Ovate, dark-brown, smooth, arched. Purs cepmelice narrow, ascending ; aculor wreu broader than long; clypers excarated, upper portion projecting further than the lower. Pars thorucicu furnished with a few fine ciliate hairs; lateral grooves present, bnt very indistinct; murginal buml narror. Eyes.-Normal. Legs.-Long, tapering, stratryellow, clothed with fine yellow hairs, and armed with short weak spines; each femmr and tibia, except of leg iii., has a dark-brown ammlation at apex; all metatarsi similarly annulated at apex. Relative lengths: 1, 2, 4, 3. Pulpi-Short, stratw-yellow, with exception of genital bulb, which latter is dark-brown, short, broad, and clothed with long hairs. F'ulese-Short, concolorons with cephalothorax. Waxillw umi Labium.-Normal, concolorous also. Stermum.Normal; also concolorons. Abdomen.-Elongate, triangular, arched, slightly overhanging base of cephalothorax; near the front there are two large hmmeral hmmps apex accmminate (Fig. 29) ; upper surface dark-brown, streaked with yellow; sides and inferior surface concolorons.
$q$ Cephalothorax 1.1 mm . long, 0.9 mm . broad; abdomen, 2.5 mm . long, 2.5 mm . broad.

Except that the $O$ is larger and darker than the $\delta$, and that the abdomen (Fig. 30) is broadly triangular, and as long as it is broad, both sexes are remarkably similar in appearance.

Hab.-Gordonvale, jungle, May and June.

> Gemus Theridion, Heulch.

Theridion pyramidale, L. Koch.
Theridium pyrumidule, L. Koch, Verh. K.K. Zool.-bot. Ges. Wien, 1867, p. 190 ; Die Arach. Austr., i., 1872, p. 266, pl. xxii., fig. 5.

Hab.-Aloomba, July 7, 1912; Quingilli, sweeping grass in forest, September 13, 1912; Gordonvale, July 7, 1912, sweeping in forest, August 20, 1912, from nest of dead leares, egg-sac chocolate colonr, September 9, 1912, forest, egg-sac pale chocolate, October 24, 1912, sweeping grass in forest. Somle specimens immature. Common in Queensland and New South Wales.

> Theridion decuratum, L. Koch.
(Plate xv., figs. 31 and 32.)
Theridium decoratum; L. Koch, Verh. K.K. zool.-bot. Ges. Wien, 1867, p. 183 ; Die Arach. Austr., i., 1872, p. 265, pl. xxii., figs. $3,3 a$.
§ Cephalothorax, 1.2 mm . long, 1 mm . broad; abdouren, 1.3 mm . long, 1.3 mm . broad, and 1.9 mm . from apex to spinnerets.

Cephahthorux. - Ovate, arched, smooth, yellow. H'us: ceplulicu ascending, attennated in front; veulur areu broader. than long; clypens narrow. I'us thonscict furnished with a few short, scattered hairs; radial grooves indistinct ; medicu fovea distinct, recurved; maryimul hom narrow, dark. E'yes.Normal. Leys-Of a lighter yellow tint than cephalothorax, with dark amulations at junction of joints, long, tapering, clothed with fine hairs, ant armed with moderately long spines. Relative lengths: $1, \because, 4,3$. P'ulpi-Whort, femoral and tibial juints concolorous with legs, and the genital bulb, which is large and complicated, concolorous with cephalothorax (Figs.31, 32). Falces.-Short, not strong, arched, concolorons with cephalothorax ; fangs weak. Murillo, Lulhium nud Ster-mun.-Normat; concolorous also with cephalothorax. Abter men.-Ovate, arched, pubescent, slightly overhanging base of cephatothorax, much deeper than long; colour pattern similar to O.-see Koch's figure in "Die Arachinden des Australiens," quoted above.
obs.-L. Koch (supra) describes and figures the of only, but Mr. Girault succeeded in obtaining a fnlly developed $\begin{gathered}\text { o } \\ \text { d }\end{gathered}$ which is herewith described. The of varies considerably in colour, some forms being much darker than others.

Hub-Gordonvale, by sweeping, taken during the months of April, August and September. Occurs in Queensland, New South Wales and Victoria.

Theridion mundelun, $L$. Woch.
Theridium mundulum, L. Koch, Die Arach. Austr., i., 1872, 1'. 263, , 1 . xxii., figs. 3, 3a.

Hub.-Gordonrale, forest, during months of June, August, September, and Norember. Egg-sacs, white and lilac. Occurs in Queensland, New Smotl, Wales and Victoria.

$$
\text { Theridion tepidariorun, } \because \text {. Koch. }
$$

Theridium tepiduriorum, C. Koch, Die Arach., viii., 1841, P. 75 , pl. celxiv., fig. 646 ; pl. cclxiv., figs. 644 and 645.

Hub.-Gordonvale, interior of buildi:g, September 9. World wide range.

Theridion hmitatun, L. Koch.
Theritium limitutum, L, Koch, Die Arach. Austr., i. 1872, 1'. 256 , tal), xxi., figs. 8, 8u, 8b.

Ilub-Gordunvale, October. Occurs also in New South Wales.

> Theridion fuscomaculatum, el, nor.
> (Plate xy., tigs. 33 and 34.)

ㅇ Cephalothorax, 2.1 mm . long, 1.8 mm . broad; abdumen, 3.2 mm . long, 2.8 mm . broad (Fig. 33).

Cephulothorur--Ovate, arched, yellow-brown, hairy. l'urs cephalicu ascending, sides deelivous, rather darkly clouded down the median line, segmental groove distinct: ocular areu broader than long; clipeus deep, strongly bowed. Purs ceplulica broad, radial groove and mediun forea distinct, clonded with dark-brown; merginul bumt, dark brown. Eyes.-Normal. Legs.-Long, tapering, hairy, armed with a few short, weak spines, yellow, with yellow-brown annulations. Relative lengths: 1, 4, 2, 3. Palpi-Whort, hairy, yellow, tarsus annulated with yellow-brown, similar in clothing and armature to legs. Falces.-Moderately long, not strong, arched, tapering, inner angles clothed with a few short hairs. Juxille.-Yellow, arched, apices inclining inwards, surface furnished with a few rather long, stiff hairs; inner angles almost straight. Labi$u m$.-Similar in colour and clothing to the foregoing, short,
broad, arched. Stermum.-Yellow, sulfused with dark-brown arched, shield-shaped, terminating obtusely between folith pair of coxæ, surface furmished with a few short, dark hairs. Abdomen- Uvate, strongly arched, slightly overhanging base of cephalothorax, hairy, yellow, spotted am mottled with dark-brown (almost black) markings; inferion surface yellow, with dark-brown (almost black) markings; there are also two large and broad patches of chalky-white, muttled with yellow; and these patches, of which the pusterior one is much the largest and brightest, is bisected by an irregularly-shaped dark-brown band or patch. Epiaymun.-A large dark-brown plaque, broadest in front, where it is deeply excavated; lateral angles somewhat wavy, inclining inwards; pusterior extremity raised, and fmrnished with two large, deep pits (Fig. 34).

Hub.-Gordonvale, forest, November. Two examples of this species, one rather darker and somewhat smaller than the other.

Therhion abiouernitisa, \%\%or.
(Plate xv., tigs. 35 and 36.)
ㅇ Cephalothorax, 2.1 mm . longe, 1.8 mm . broad; ablomen, 3.2 mm . long, 2.7 mm . broall (fig. 35).

C'ephuthorwe, - Yellow-brown, smoorh, shining, awher, ovate. Pur cephulicu ascending, obtuse in front, segmental groove distinct; oculur ureu broader than long; clypeus narrow, deep. Purs thorncicu broad, radial grooves present, but not distinct; mediun focen deep; mmintinal luml narow. E!es.Normal. Leys-Long, tapering. rellow with dark-brown annulations, hairy, and armed withshort, fine spines. Relative lengths: 1, 4, 2, 3. P'olpi-Short, similar in colour and amature to legs. Funes.Moderately long, tapering, arched, inner angles fringed with short, stiff, dark hairs; base and sides dark-brown, yellow in front, and at apices. Murille.-Dark-brown, apices and immer angles pale, surface arched and furnished with a few stiff black hains or bristles; apices truncated aud inclining inwards. Lubium. -Short, broad, arched, similar to maxillæ in colour and clothing. Sternum. -Shieldshaped, arched, dark-brown, terminating obtusely between fourtl pair of coxæ, surface sparingly clothed with short, stiff hairs. Abdomen.-Ovate, strongly arched, hairy, dark-bromn
grnerally, but somewhat lighter in the median area of snperion surface; posterior extremity, sides and inferior surface ormamented with whitestreaks and yelhwish !atches. Epiy!nmm.A transverse plaque with two circular pits, which latter are separated from each other he a space equal to twice their individnal diameter (Fig. 36).

Hul.-Gordonvale, forest, September 12, 1912.
Theridion miphocosmum, ${ }^{10}$ ap. nor.
(Plate xr., fig. 37.)
ㅇ Cephalothorax, 1 mm . long, 0.7 mm . broad; abdomen, 2 mm. long, 1.5 mm broad.

Cephulothorus-Ovate, arclied, smouth, shining, yellow. Purs cephatica ascending, rounded in front, sides steep, segmental groove distinct; oculur ureu broader than long; clypeus narmw, deep. Pors thouctu strongly arched, radial grooves present, but not distinet; thanncic foren, deep; maryinal buml. narrow, dark-brown. Eyes.-Normal. Leys.-Long, slender, tapering, straw-yellow with brownish amnlations, clothed with fine hairs, and armed with short, weak spines. Relative lengilis: 1, 4, 2, 3. I'ulpi.-Short, straw-yellow, similar in chothing and armatne to legs. l'ulces.-Concolorons with cephalothorax, arched, tapering, saringly hairy. MurillipAhor concolorous, arched, apices inclining inwards, sparingly hairy. Lethinm. - This is also concoloroms, short, broad, arched, sparingly hatry. Stermm. - Shield-shaped, concolorous, smooth, shining, teminating obtnsely between fom th pair of corre: surface furnished with a few short, stiff hairs. Abetn-men.-Ovate. Slighty overhanging base of ceplatothorax, strongly archer, faintly pmbencent, yellow, omamented with extensive pitthes of snowy white (Fig. 3') : on the snperior smrface the snow white patch is relieved by a median and somewhat conventional design and delicate tracing; laterally the patches are reticulated, and are again further relieved by dark-brown markings: inferior surface, dnll yellow. Eqiaty-num.-A short, oral, dark-brown, transerse plaque, with two deep circular pits situated closely together.

[^8]Hul.-Gordonvale district, top of coastal range at $1,500 \mathrm{ft}$., sweeping, forest, May 29, 1913.

$$
\text { Theridion mianiphum, }{ }^{\text {II }} \text { sp. ner. }
$$

(Plate xri., figs. 38 and 39.)
If Cephalothorax, 0.8 mm . long, 0.6 mm . broad; abdomen, 1 mm . loug, 0.8 mm . broad (Fig. 38).

C'ephulothorur.-Ovate, arched, yellow, smouth, shining. Purs cephulicu obtase in front, sides declivons, segmental grooves distinct; oculer weer broader than long; clypeus rounded, deep. Purs thoracicu strongly arched, radial grooves present, but not sharply defined; medicu forell profonnd; muryinal buncl, narrow. E'yes.-Normal. Leys-Longr, slender, tapering, yellow, probescent, and amed with short, fine spines. Relative lengths: 1, 4, 2, 3. I'ulpi.-Short, eoncolonous, similar in clothing and armature to legs. Vovethe aml Luthi$u m$.-Concolorons also, and normal in form. Stermum.-Shield-shaped, yellow, furnished with a few fine hairs, arelied, shining; posterior extremity terminating obtusely between fourth pair of coxa. Alutumen.- Ovate, strongly arched, slightly overhanging base of cephalothorax, pubescent, yellow, omamented with two large, reticulated patches and several small spots of snowy white. Epiy!num.-A transversely oval plaque, with two large circular pits, which latter are separated from each other by a distinct ridge (Fig. 39).

Hab.-Gordonvale thistrict, top of coastal range at $1,500 \mathrm{ft}$., sweeping, forest, May 29, 1913.

## Thermon vextrmosion, sp, num.

(Plate xri., figs. 40, 41, and 42.)
of Cephatothomax, $1.51 m m$. $10 n g, 1.1 \mathrm{~mm}$. broad ; abdomen, ?.5 mm. Iong, 2.3 mm . broad (Fig. 40).
'ephetuthorm-Orate, smooth, shiming, dark-brown. Furs copluticu ascending, segmental grooves distinct, sides somewhat declivons, obtusely rombled in front ; oculur wreu broader than

[^9]long: clypens deep. Pars thoruricu broad, radial grooves indistinct; medien foreu profound; meryimal bume, narrow. Eyps.Normal. Leys.-Moderately long, rather strong, yellow with golden-brown ammlations, hairy, armed with short weak spines. Kelative lengths: 1, 4, :2, 3. I'alpi.-Short, not strong, similar in colour, clothing and armature to legs. Futces.-Short, yellow, tapering, arched. Muxillip.-Normal, yellow, arched, apices inclining inwards, moderately hairy. Labium.-Concolorons, short, broad, arched. Sternam.-Shield-shaped, arched, surface yellow, margins dark-brown, sparingly hairy, posterior extremity obtuse, and terminating between fourth pair of coxæ. Abdomer.-Globose, slightly overhanging base of cephalothorax, pilose; superior surface yellow with darkbrown markings and reticulated snow-white patches (Fig. 41); inferior surface yellow with dark-brown markings. Epigy-num.-A transverse, oval plaque, with two deep, circular pits (Fig. 42).

Obs-There are two adult specimeus and one immature one in the collection, and of these the former show that the species is variable (Fig. 41).

Huth-Gordonsale, jungle, April 2, 1914.

Therillum reimitum, L. Koch, Die Arach. Austr., i., 1872, p. 271. pl. xxii., figs. 8, 8u.

Obs--This specimen is aprarently none other than the above species, although it differs from Koch's figure ; firstly, the legs are longer, and secondly, the abdomen is more ovate. The epigynum, howerer, agrees with figure and description.

Hub.-Gordonvale, May 10, 1912. One specimen.

Theridion gibbora, sp. ner.
(Plate xvi., figs. 43, 44, and 45.)
Cephalothorax, 1.2 mm . long, 0.9 mm . broad; abdomen, 1.8 mm . long, 1.4 mm . broad (Fig. 43).

If C'ephuluthorud-Ovate, straw-yellow. P'ars cephulicu raised, arched, smootl, furmished with a few rather long lairs, narrow in front, segmental grooves distinct; ocular arer broader than long ; clifieve moderately deep. Purs thoracica smoth, arched, radial grooves distinct, median forea moderately deep ; mnminul bund moderately broad, fringed with fine hairs. Eyes.-Numal. Leys.-Long, fine, tapering, pilose, armed with fine and rather long spines, straw-yellow generally, bnt having the lower extremity of each joint mnch darker. Relatice lengths: $1,2,4,3$. Pulpi.-Rather long, fine, similar in colom and armature to legs. Fulces.-Moderately long, tapering, arched, concolorous with cephalothorax, pilose; fangs weak. Naxillis und Labium.-Normal; concolorons with falces. Stermum.-Shield-shaped, arched, terminating obtusely between fourth pair of coxx: surface furnished with a few rather long hairs. Abdomen.-(ibbous, slightly overlanging base of cephalothorax; uppersurface creamy-white, reticulated, and ormamented with a broarl, indegnlar', median smoky-yellow bar which is narrowest at the anterior and posterior extremities, and from which are directed oblique and irregnlar lateral stripes; at posterior extremity of posterior surface there is a prominent tubercular cminence suffised at base with orangered. whilst the apee is dark-brown (Fig. t3) : posterior angle similar in colom and scheme of ornamentation to superior surface: the sides have the upper portion creamy-white, reticnlated, and marked with lateral stripes while the lower portion is dull-yellow (Fig. 44) ; inferios surface dull-yellow also and relieved by a few white spots. Epigymm.-A small, dark, shining, channelled, tubercular eminence with widely removed lateral, circular pits (Fig. 45).

Huh.-Gordonrale, jungle, May 9. 1913.
Theridion theridmbrs, Keys.
Tohersm therimimiles, Keys.. Die Arach. Anstr., Suppl., 1890, 1. 240 , tab. xxi., tigs. 6, fin, 6h.

Ilnh.-Gordonrale, sweeping, forest, Augnst 23, 1912; Pyramil Mt.. sweeping grass, November 21, 191\%.

> Theridion uiralleti, sp nor.
(Plate xvi., figs. 46 and 47.)
ㅇ Ceplatuthorax, 1.3 mm . long, 1 mm . hroad; abdomen, 2.8 mm . long, 2.4 mm . broad (Fig. 46 ).

Cephalothorur-Yellow-brown, shining, orate. Purs cephulica slightly raised, arched, smooth, segmental groove distinct, narrow in front ; oculur wren broader than long ; clypeus moderately deep, fringed with fine hairs. I'uss thoncticu arched, radial groores and median fovea distinct; murgimel bund narrow. Eyes.-Normal. Leys....Noderately long, tapering, yellow, tibial and metatarsal joints amulated with dark-brown at apex, clothed with fine hairs and armed with short, fine spines. Relative lengths: 1,4, , $2,3$. Palpi.-Short, yellow, similar in clothing and amatme to legs. Fulces.- Short, mot strong, arched, yelluw, pilose. Hucitle and Labium. - Yellow, normal. Stermum.-Shield-shaped, yellow, narrowly margined with dark-brown, moderately arched, fminished with a few very short and fine lairs, and terminating in an obtnse point between fourth pair of coxa. Abrlomen.-Ňearly globose, strongly arched, boldly projecting over hase of cephalothorax; npper surface yellowish-grer, ormamented with irregularly formed, reticulated chalky-white patches; at posterior extremity there are a couple of small, black spots and a delicate scheme of tracery; sides yellowish-grey, ornamented with irregnlar and reticnlated chalky-white patches, and darkbrown (almost black) markings; inferior surface yellowishgrey also, and relieved by dark-brown markings. Epig!num.An arched, sparingly hairy, and transversely nval eminence, in the front of which are two widely remorell transverse pits (Fig. 47).

Hab.-Crordonvale, sweeping jungle, April 27, 1913 (adnlt) ; same locality, sweeping jungle, Tune, 191屯 (immature).

Thembon thorelli, L. Koch.
Theridium thorelli, L. Koeh, Verh. K. K. zool.-bot. Ges. Wien, 1865, p. 857, Die Arach. Austr., i., 1872, p. 258.

Hub. - Gordonvale, forest, May 24, 1912. Originally recorded from Sydner, New South Wales.

> Thermion? albostriatem, L. Koch.

Therillum ullustriutum, 1. Koch, Yem, K. K. zool.-bot. Ges. Wien, 1867, p. 187; Die Arach. Austr:, i., 1872, p. 270 , pl. xxii., fig. 7.

Hub.-Gordonvale forest, August 31, 1912. An immature of specimen, varying somewhat from the abdominal markings as described and figured by Koch. Although not fully developed, I feel sure there can be but little doubt as to the correctness of the above determination, even thongh it be qualified with a note of interrogation.

## Theridion nivosum, sp. noc.

(Plate xvi., figs. 48, 49 and 50.)
ㅇ Cephalothorax 1 mm . long, 0.7 mm . broad; abdomen, 1.9 mm . long, 1.4 mm . broad (Fig. 4s).

Cephuhothorur.-O vate, pilose, yellow. I'urs cephulia raised, arched, thoracic segment distinctly marked, and ornamented with two distinct, hroad, dark smb-median bands; ocular areu broader than long; clypens narrow, moderately deep, and fringed with fine hairs. I'ms cephatica broad, arched, nomal gronves and mediun foren distinct; mur!imul baml moderately broad, creany-yellow. Eyes.-Normal. Leys.-Moderately long, yellow, tapering, clothed with fine hairs and armed with short, fine spines. Relatise lengths: 1, 4, :2, 3. P'olpi.Moderately long, similar in colour and armature to legs. Fulces.--Yellow, arched, pilose, tapering, fangs dark-brown. Mraille and Labium.- Concolorons with foregoing. Normal. Sterum.-Concolorous also, arched, shield-shaped, pilose, terminating obtnsely between fonrth pair of coxæ. Abdomen.Orate, pilose, overhanging base of cephalothorax, strongly arched; superior surface yellow, ormamented with a broad yellow, tapering, elongate median bar, which is meven in outline; in addition to this there is a delicate concolorous tracery and snow-white patches; sides yellow, and ornamented witl snow-white spots (Fig. 49) ; inferior surface yellow also, with two rather large show-white spots in front of spimerets, and a few smaller ones scattered promiscuously. Fipig!mm.-A large dark-hrown, arched, transversely wrinkled, overhanging lip, the margin of which is reflexed (Fig. 50).

Hab.-Townsrille, sweeping grass, Jnly 11, 1912.

> Therinion spinigerdi, sp, nor.
> (late xvi., fig. 5l.)

§ Cephalothorax, 1 mm. long, 0.7 mm. broad; abdomen, 1.4 mm . long, 0.7 mm . broad (Fig. 51).

Cepluluthorux.-Pale-yellow, ovate, smooth, shining, and haring a thin dark line running from near the eyes almost to posterior angle. Purs ceplatica raised, arched, segmental groove faintly distinct; oculur uren broader than long ; clypeus narrow, moderately deep. Pu's thorucicu arched; mediun fovea indistinct; murginul bund narrow. Eyes. - Normal. Legs.-LLong, tapering, concolorons with cephalothorax, moderately clothed with short and very fine hairs and armed with short, fine spines. Relative lengths: $1,4,2,3$. Pulpi.Short, concolorons with legs, and similar to them in clothing and armature; genitul bulb reddish-yellow, large, somewhat pear-shaped and complicated in structure. Falces.-Concolorons with cephalothorax, short, arched, weak, tapering, smooth, fangs short, weak, reddish. Mumillue und Lubium.-Concolorous with cephalothorax; normal. Stermum.-Concolorous with foregoing, arched, smooth, shield-shaped, and terminating obtusely between fourth pair of coxæ. Abdomen.-Ovate, arched, rery slightly orerhanging base of cephalothorax, paleyellow; on the superior surface there are four black, transverse bars, the first of which is entire, and the others broken; near posterior extremity these are four long black spines (one of the inner ones missing in the type) at the sides and below the spines there are several small but distinct black markings; sides and inferior surface pale-yellow.

Mal.-Gordonvale, jungle, June, 1914.

## Theridion foscodecoratom, sp, uoc.

$$
\text { (Plate xri., figs. } 52 \text { and 53.) }
$$

¢ Cephalothorax, 1 mm . long, 0.7 mm . broad; abdomen, 1.5 mm . long, 1.1 mm . broad (Fig. 52).

Cephulothorax.-Ovate, smooth, yellow, with a broad, median, longitudinal fuscons band. Pers cephutica raised, strongly arched, segmental groove distinct; ocular wren broader than long; clypeus narrow, moderately deep, fringed with fine hairs. Pars thoraricu broad, arched, radial grooves and median fovea distinct; murginel huml narrow, pale-yellow. Eyes.Normal. Legs.-Long, tapering, yellow, clothed with silky pubescence, and armed with short, fine spines; first and second
femoral and tibial joints each fnscous at apex. Relative lengths: 1, 4, 2, 3̈. I'mpi.-Moderately long, tapering, yellow, similar in colour and armature to legs. Fulces.-Yellow, tapering, arched, pilose, weak; fings short anct weak. Vurville und Luthim.-Yellow; normal. Sternnm.-Shield-shaped, terminating obtusely between fonth pair of coxx, arched, pilose, yellow, lateral margins narrowly fuscous. Abclomen.-Orate, overhanging base of cephalothorax, arched, pilose; superior surface pale-yellow, clouded with fuscous, and ormmented with a broad, median, elongate, somenhat leaf-like design, which latter extends from anterior to posterior extremity ; it is broader towards the middle, and varies in parts in intensity of colour ; sides yellow, clonded with fuscous; inferior surface rellow, with a broad, median fuscous band, irregular in outline, and broadest at the middle. Epiqymom.-Two large, somewhat rounded discs placed closely together. and above each of which there in at dark, circular patch ( Fig . 53 ).

Hulb-(iordonvale, jungle, tune, 1914.

Genus Latrodectus, Wulcli.
Latronectus hasseliti, Thor.
Lutrodectus husseltii. Thor., Oefr. Kongl. Vetensk. Akad. Forh., 1870, p. 369 : L. Koch, Die Arach. Austr., i., 1872, 1. 276 , pl. xxiii., figs. - , 3,3 u.

Lutrodectus scelio., L. Koch, Die Arach. Austr., i., 12i2, 1 . 279 , pl. xxiii., fig. 4.

Hub.-Gordonvale, January 23, 1913, May 2.4, 191:2, November, 1911; Roma, October 5, 1914.


[^0]:    ${ }^{1}$ See pl. 4, Vol. ix., Ann. Soc. Entom. France, 1891.
    d Rainbow-Rec. Austr. Mus., ix., 2, 1911.

[^1]:    ${ }^{3}$ є̇ліхиритоя $=$ pleasing．

[^2]:    ${ }^{4}$ 入єiкогтиos $=$ white marked.

[^3]:    

[^4]:    " oronedos = marked with suow-white.

[^5]:    " єтиирıкоs $=$ comrade-like.

[^6]:    * ipeokos = plasinis.

[^7]:    9 Named ulhonour of my Assistant, Mr. A. Musyrave.

[^8]:    ${ }^{11}$ v吊okurpos omamented with snowy white.

[^9]:    11 otauchos - marked with snow-white.

